

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/821,081	04/08/2004	Shigetaka Haga	Hohjoh Case 51	1128	
23474 75	90 09/27/2006		EXAMINER		
FLYNN THIEL BOUTELL & TANIS, P.C. 2026 RAMBLING ROAD			HEINRICH,	HEINRICH, SAMUEL M	
	KALAMAZOO, MI 49008-1631		ART UNIT	PAPER NUMBER	
	,		1725		
•			DATE MAILED: 09/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

_					
Office Asticus Occurrence		Application No.	Applicant(s)		
		10/821,081	HAGA, SHIGETAKA		
	Office Action Summary	Examiner	Art Unit		
		Samuel M. Heinrich	1725		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is is a solution of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1 cause the application to become ABANDONE	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	·				
 1) ⊠ Responsive to communication(s) filed on 03 July 2006. 2a) ⊠ This action is FINAL. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims				
5)	Claim(s) 2-4 and 9-11 is/are pending in the apple 4a) Of the above claim(s) 5-8 is/are withdrawn to Claim(s) is/are allowed. Claim(s) 2-4 and 9-11 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 08 April 2004 is/are: a) Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath of the	relection requirement. r. ⊠ accepted or b) objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one is required if the drawing(s) is objected to be one in the drawing(s).	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te		

Application/Control Number: 10/821,081

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Applicant's Admitted Prior Art (AAPA) or JP2000036370A further in view of JP355165288A and further in view of JP404224628A. AAPA and JP2000036370A are very similar. With respect to (WRT) Claim 9, JP355165288A shows (Figure 1) a chamber having plural diameter portions and the use thereof with particular known heating elements or particular known work pieces would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art. JP404224628A describes (English Abstract, last two lines) the use of a shielding body and the use thereof with any beam apparatus would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art in order to prolong the apparatus service life. WRT claims 9 and 11, changing the shape of the apparatus through the use of plural chamber diameters or through the use of particular larger upper chamber diameter and smaller lower chamber diameter in the AAPA or JP2000036370A apparatus would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the shape change has an advantage such as prolonging the apparatus service life or has an advantage of use

with particular sized known filaments and known workpieces. The limitations of Claims 2-4 can be found in AAPA (Specification, pages 1-5) and would have been obvious apparatus features at the time applicant's invention was made. With respect to claim 10, plural reflectors are shown in AAPA (Figure 6 "Prior Art") and the use thereof in an apparatus having plural chamber diameters would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because they provide heat blocking and protection of the apparatus.

Response to Arguments

Applicant's arguments filed July 03, 2006 have been fully considered but they are not persuasive. In response to applicant's argument that JP355165288A and JP404224628A are nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, both references pertain to energy beam apparatus having known chamber shapes and shield shape features. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper.

Page 4

Art Unit: 1725

See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971). In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

Application/Control Number: 10/821,081 Page 5

Art Unit: 1725

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Samuel M Heinrich Primary Examiner Art Unit 1725